

## Xenon Thyatron

## NEGATIVE-CONTROL TRIODE TYPE

## GENERAL DATA

## Electrical:

	Min.	Av.	Max.	
Filament, Coated and Mid-Tapped:				
Voltage (AC or DC)				
between pins 2 and 3. . . . .	2.4	2.5	2.6	volts
Current . . . . .	7	9	11	amp
Minimum heating time prior to tube conduction. . . . .		30		sec
Direct Interelectrode Capacitances (Approx.):				
Grid to anode . . . . .		2		$\mu\text{f}$
Ionization Time (Approx.) . . . . .		10		$\mu\text{sec}$
Oeionization Time (Approx.) . . . . .		1000		$\mu\text{sec}$
Maximum Critical Grid Current . . . . .		10		$\mu\text{a}$
Anode Voltage Drop at peak anode amperes = 10. . . . .		10		volts
Maximum Commutation Factor <sup>a</sup> averaged over first 350 volts of inverse anode-voltage rise. . . . .		0.66		$\text{va}/\mu\text{sec}^2$

## Mechanical:

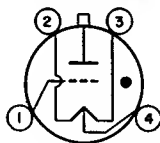
Operating Position. . . . .	Any
Maximum Overall Length. . . . .	6-3/4"
Maximum Seated Length . . . . .	6"
Maximum Diameter. . . . .	2-3/16"
Weight (Approx.) . . . . .	3 oz
Cap . . . . .	Medium (JEDEC No. C1-5)
Base. . . . .	Special Metal Shell
Terminal Diagram:	

BOTTOM VIEW

Pin 1 - Grid

Pin 2 - Filament

Pin 3 - Filament



Pin 4 - Filament  
Tap &  
Circuit  
Returns  
Cap - Anode

## GRID-CONTROLLED-RECTIFIER SERVICE

## Maximum and Minimum Ratings, Absolute-Maximum Values:

For anode supply frequency of 60 cps

## PEAK ANODE VOLTAGE:

Forward . . . . .	900 max.	volts
Inverse . . . . .	1250 max.	volts

## PEAK NEGATIVE GRID VOLTAGE:

Before tube conduction. . . . .	100 max.	volts
During tube conduction. . . . .	10 max.	volts



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Electron Tube Division  
Harrison, N. J.

DATA I  
I-62

## ANODE CURRENT:

Peak . . . . .	30 max.	amp
Average <sup>b</sup> . . . . .	2.5 max.	amp
Fault . . . . .	300 max.	amp
AMBIENT-TEMPERATURE RANGE during operation .		-55 to +75 °C

<sup>a</sup> Defined as the product of the rate of current decay in amperes per microsecond just before conduction ceases and the rate of inverse-voltage rise in volts per microsecond following current conduction.

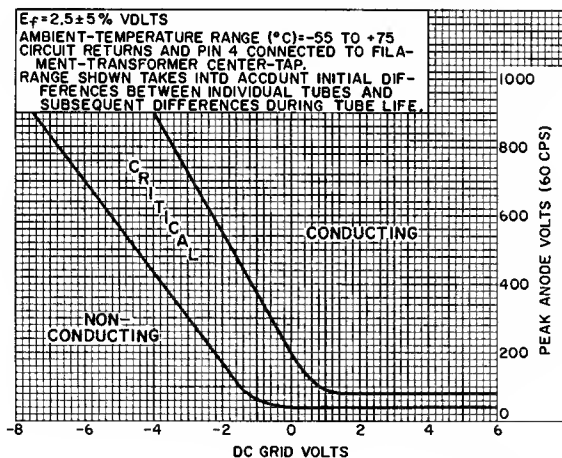
<sup>b</sup> Averaged over any period of 4.5 seconds.

## OPERATING CONSIDERATIONS

Circuit returns should be connected to filament mid-tap (Pin 4).

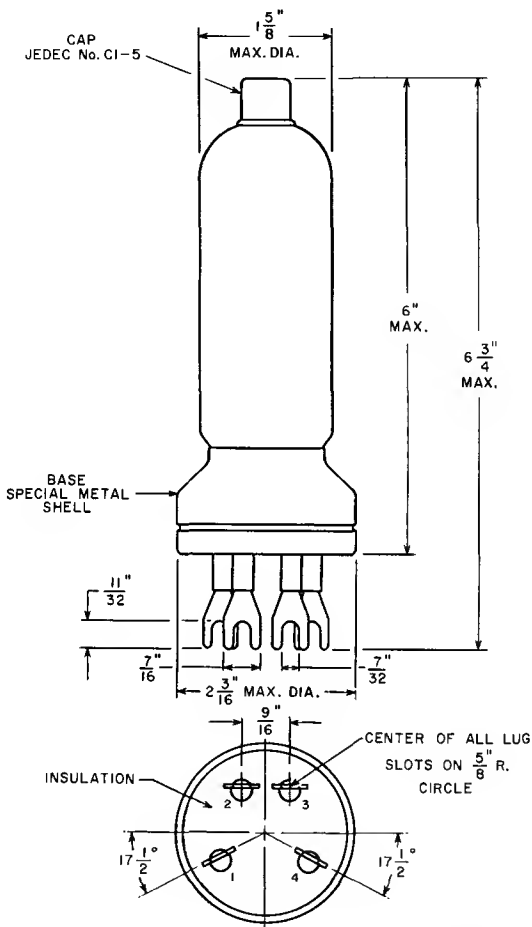
Sufficient anode-circuit resistance, including the tube load, must be used under any conditions of operation to prevent exceeding the maximum current ratings of the tube.

## OPERATIONAL RANGE OF CRITICAL GRID VOLTAGE



92CS-11323





92CM-11314

